

AGENDA

REVIEW OF 100% DESIGN DEVELOPMENT

- Agency Reviews & Comments
- Landscape Design
- Exterior Character & Materials
- Interior Design
- Other building features

DESIGN DEVELOPMENT 100% COMPLETE

SITE EVOLUTION SD to DD



ORIGINAL SITE

EXISTING PARKING COMMUNITY CENTER = 145 AFFECTED LIBRARY SPACES = 15TOTAL = 160

110,000 sf site

RENOVATED SITE **NEW PARKING** COMMUNITY CENTER = 145+15AFFECTED LIBRARY SPACES = (-15) TOTAL = 160

198,000 sf site

AGENCY REVIEW COMMENTS

6/27 COMPLETE STREETS COMMISSION COMMENTS

- 1. RE EVALUATE RIBBON BIKE RACKS
- 2. WIDER EASTERN WALKING PATH
- 3. MINIMIZE REDUCTION OF LIBRARY PARKING @ NEW PEDESTRIAN CONNECTOR
- 4. REVIEW DROP OFF TO PREVENT U-TURNS AND IMPROVE TRAFFIC PATTERNS

7/10 CITY COUNCIL DIRECTION

IN ADDITION TO COMPLETE STREETS COMMENTS:

- 5. DESIGN FOR PV PANELS
- 6. CHANGE ROOF MATERIALS TO COMPOSITION SHINGLES FROM METAL

AGENCY REVIEW COMMENTS

8/2 PLANNING COMMISSION REVIEW

7. HIGHER QUALITY OF MATERIALS

Less stucco

Attention to Window detailing

Reconsider Metal standing seam roofing

- 8. NORTH BAR MORE VISUAL INTEREST
- 9. LANDSCAPE COMMENTS

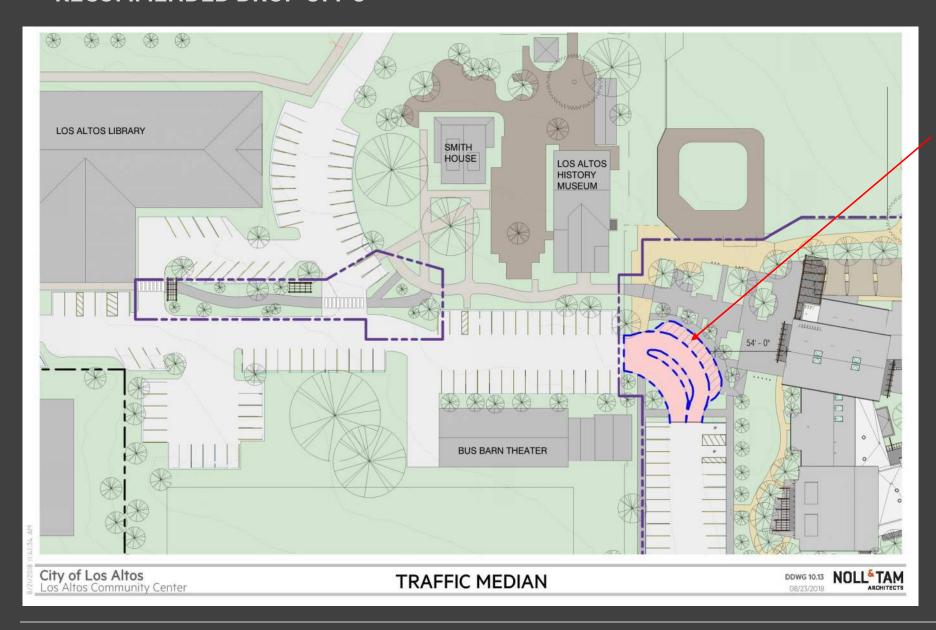
Character of trees- deciduous /non-deciduous

Character of courtyard paving

Ginko Trees (slow growth, and messy)

10. CHARACTER OF PEDESTRIAN CONNECTOR

RECOMMENDED DROP OFF 3

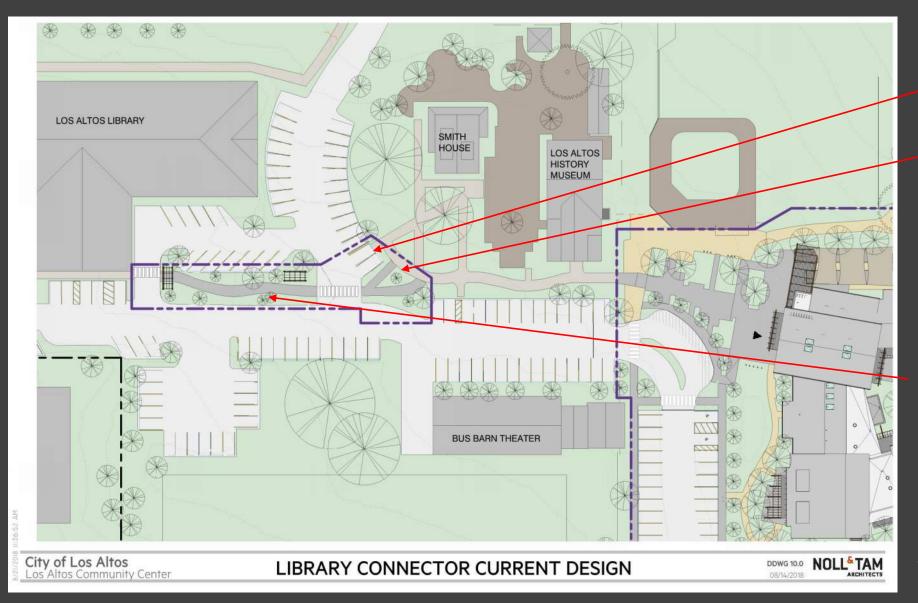


MINIMAL IMPACT ON PLAZA



AERIAL VIEW FROM ABOVE @ LIBRARY

RECOMMENDED CONNECTOR DESIGN



1 SPACE ADDED

4 SPACES RELOCATED TO PARKING LOT

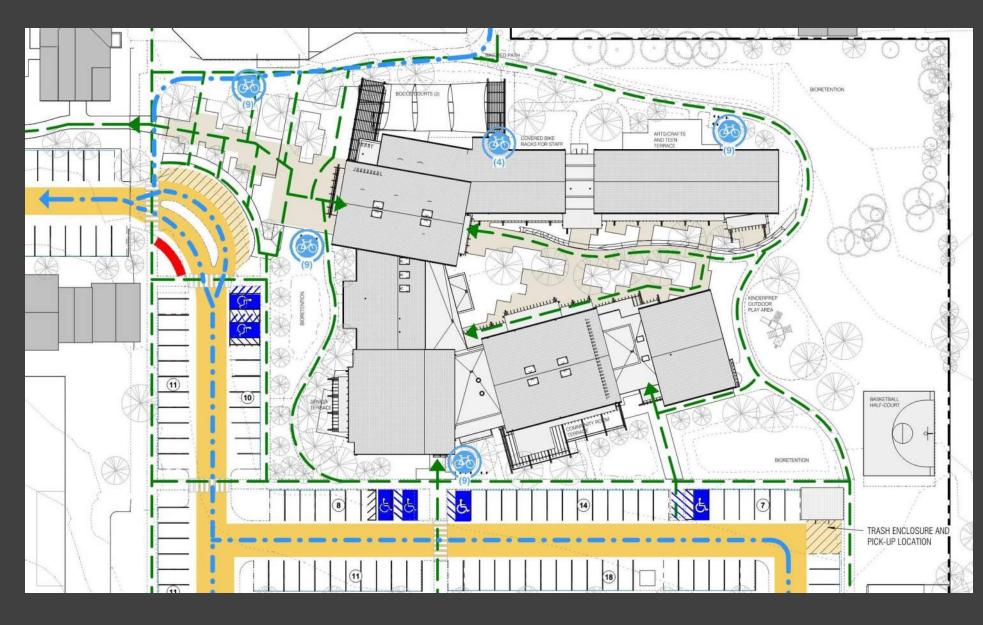
11 SPACES RELOCATED TO PARKING LOT

SUMMARY OF COMMUNITY CENTER AND LIBRARY PARKING:

145 EXISTING CONDITION CC SITE

15 EXISTING LIBRARY

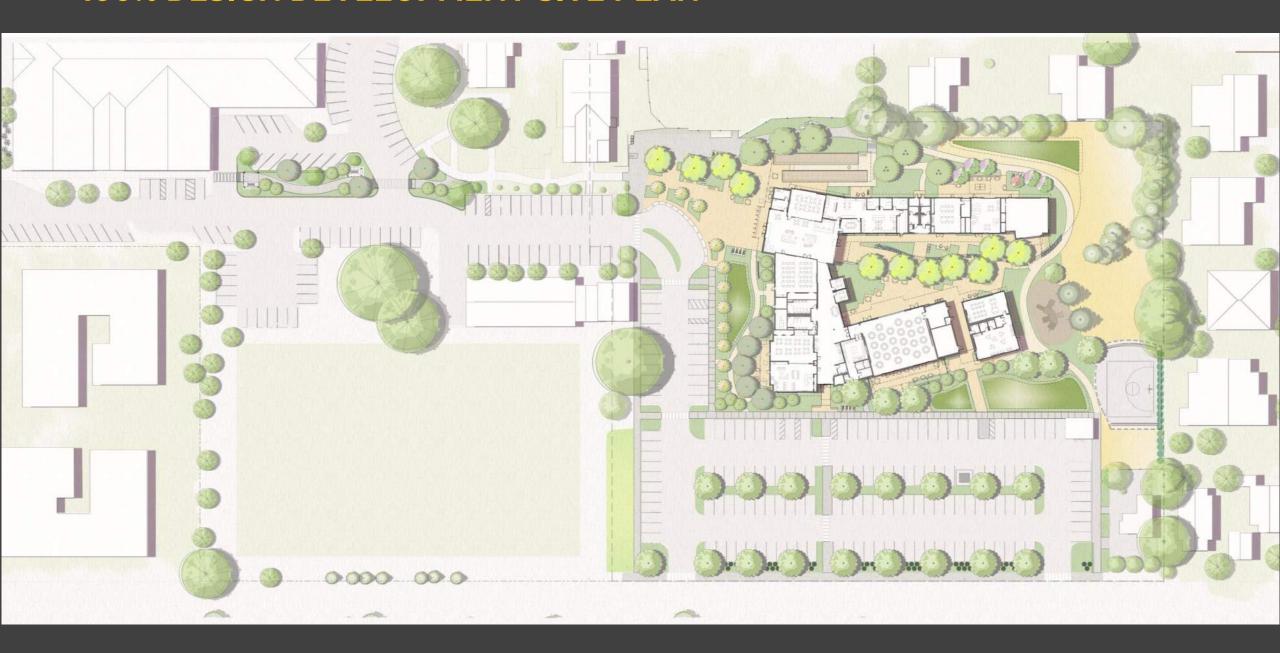
160 TOTAL EXISTING AND PROVIDED



BIKE RACKS



100% DESIGN DEVELOPMENT SITE PLAN





PEDESTRIAN CONNECTION



PEDESTRIAN CONNECTION

100% DD LANDSCAPE PLAN



COMBINED KINDER-PREP/ NEW WHISTLESTOP PLAY AREA

100% DD LANDSCAPE TREES





Lagerstroemia indica x fauriei 'Natchez' Natchez Crape Myrtle 20-25' h x 12' w Fast growth



Olea europaea 'Swan Hill' Swan Hill Olive 20-30' h x 20-30' w Slow to moderate growth



100% DD LANDSCAPE TREES

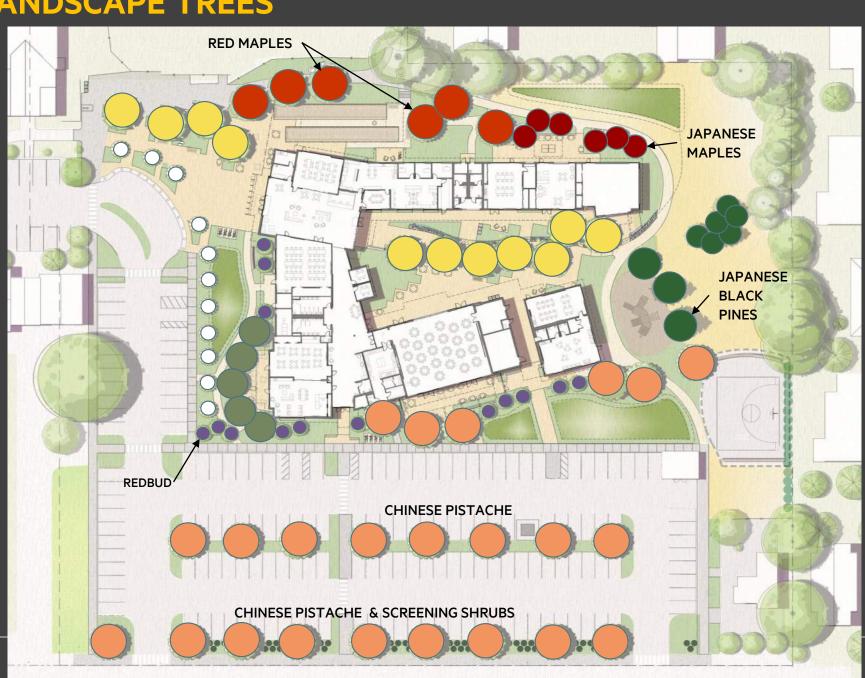




Cercis occidentalis Western Redbud 10-18' h x 10-18' w Moderate growth









Acer palmatum 'Bloodgood' Bloodgood Japanese Maple 12-15' h x 12-15' w Moderate growth





Acer palmatum 'Osazuki' Japanese Maple 20-25' h x 15-20' w Moderate growth





Acer palmatum 'Sango Kaku' Coral Bark Maple 15-20' h x 15-20' w Moderate growth





Pinus thunbergii Japanese Black Pine 30-50' h x 20-30' w Moderate to fast growth



100% DD LANDSCAPE TREES







PLANTING CHARACTER

ORNAMENTAL PLANTING CHARACTER



34,671 sf













BIORETENTION PLANTING CHARACTER



5,301 sf







HYDROSEED NATIVE GRASSES



13,227 sf

LAWN



4,699 sf

24,500 SF







ROOF PLAN



AERIAL VIEW FROM HILLVIEW

ASPHALT SHINGLE ROOFING

NATURAL WOOD ACCENT WALLS

FIBER CEMENT PANELS

WINDOW GLAZING W/ ALUMINUM FRAMES



NATURAL WOOD SOFFITS AND TRELLIS

SCORED CONCRETE PLAZA PAVING

BOCCI COURT

COURTYARD RIVER ROCK DG WALKING PATH



MAIN ENTRY FROM LIBRARY CONNECTION





MAIN ENTRY FROM LIBRARY CONNECTION

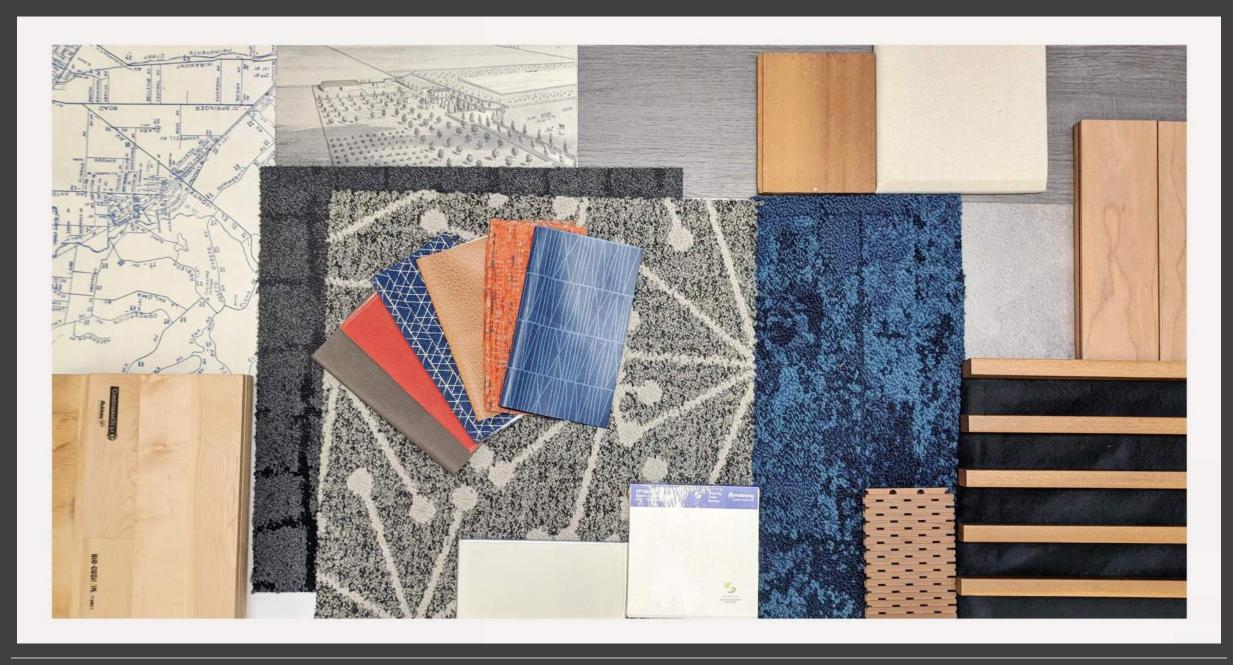




CENTRAL COURTYARD, VIEW FROM LOBBY



CENTRAL COURTARD, VIEW FROM EAST END







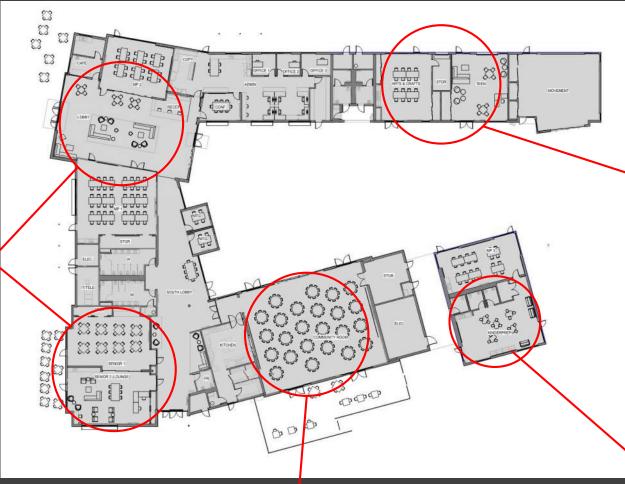
































COMMUNITY ROOM TOWARD KITCHEN

LEED GOLD EQUIVALENCY = 60 POINTS REQUIRED

56 POINTS CONFIRMED YES

4 POINTS - OPTIMIZING ENERGY
60 POINTS CONFIRMED @ DD

+3 POINTS FOR PV PANELS
63 POINTS

LEED SCORECARD

Los Altos Hillview Community Center

LEED-NC v4 Equivalency Scorecard - Points as of 7/10/2018



| 6 14 | MANAGE AND ADDRESS OF THE PARTY | 38 | Tota | l Project Score Certified 40-4 | 19 points Silver 50-59 point | s Gold 60-79 | | | | | or more po | pints | |
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| tes 79 | 2N | No | L | 1.000 | | 123 | 1 | 74 | SN | No | TV-SCOVER S | | 5000 |
| 1 | | | Credit 1 | Integrative Process | | 1 | 2 | 3 | 750 | 8 | PROFESSION AND PROPERTY. | ls & Resources 13 Points P | oss |
| | | - | Parametrical | V= | FF CONTROL OF THE PARTY OF THE | - | Y | | | | Prared 1 | Storage & Collection of Recyclables | |
| 6 1 | | 9 | The second | and Transportation | 16 Points | Commence of the last of the la | Y | 22 | | 22 | C Prereq 7 | Construction & Demolition Waste Mgmt. Planning | |
| 1 | | - | Credit 2 | Sensitive Land Protection | Previously Developed | 1 | 100 | | | 5 | Credit 1 | Building Life-Cycle Impact Reduction | 457 |
| 1 | | 1 | ₫ Credt3 | High Priority Site | Priority Designation | 2 | 1 | | | 1 | C Credit 2 | Building Products: EPD's Opt 1 -20 EPD | |
| 2 | - | 3 | Credt d | Surrounding Density and Diverse Uses | Connectivity (8+) | 5 | | 1 | | 1 | C Credit 3 | Building Products: Sourcing of Raw Materials Opt 2 -Respons. Extraction | |
| | - | 5 | (€red₹5 | Access to Quality Transit | | 5 | 1540 | 1 | | 1 | C Fredit 4 | Building Products: Material Ingredients Opt 1 - 20 Disclosure | |
| 1 | | _ | Credit 6 | Bicycle Facilities | VANDO-02-01-0 | 1 | 1 | 1 | | | C Credit 5 | Construction & Demolition Waste Management Divert 75% & 4 stream | is |
| 1 | | _ | ₫ Credit 7 | Reduced Parking Footprint Dense Loc. | 40% Reduction | 1 | | | | -0.9 | 100 700 1 | | |
| 1 | | | d Credit8 | Green Vehicles | | 1 | 9 | 3 | 3 | 1 | | nvironmental Quality 16 Points P | 05 |
| - | | | Olympia mark | | VIDEO CONTRACTOR IN THE CONTRA | Marian Company of Company | Y | | | | Prima 3 | Minimum IAQ Performance | |
| | | 1 | Sustaina | able Sites | 10 Points | Possible | Y | | | 24 | [Prereq Z | Environmental Tobacco Smoke (ETS) Control | |
| | 4/// | | C Promec 1 | Construction Activity Pollution Prevention | | - 5 | 2 | | | | ff Gredit 1 | Enhanced Indoor Air Quality Strategies | |
| | | 1 | Credt 1 | Site Assessment | | 1 | 1 | 1 | 1 | | C. Credit 2 | Low-Emitting Interiors Four Compliant Categorie | 25 |
| | | | ₫ Cridt2 | Site Development - Protect or Restore Habitat | On-site restoration | 2 | 1 | | | | C Credit 3 | Construction Indoor Air Quality Management Plan | |
| | | | Crotts 3 | Open Space | | 1 | 1 | 1 | | | C Credit 4 | Indoor Air Quality Assessment Flush out - Before Oc | C. |
| | | 1 | Credit 4 | Rainwater Management | 95th Percentile | 3 | 1 | | | | f Credit 5 | Thermal Comfort | |
| | | | Credt S | Heat Island Reduction | Roof & Non-roof | 2 | 1 | | 1 | | Credit 6 | Interior Lighting Lighting Contr | ol |
| i | | | ₫ Crodt6 | Light Pollution Reduction | | 1 1 | | 1 | 1 | 1 | ■ Credit T | Daylight Simulation: Illum. 7 | |
| | _ | | 0.00 | | Section way | | 1 | | | | Criedit 8 | Quality Views | |
| 5 | | 5 | Water E | fficiency | 11 Points Possible | | | 1 d Credit Acoustic Performance | | Acoustic Performance | | | |
| | | | # Prereg 1 | Outdoor Water Use Reduction, 30% | | * | and the second | | | | | | |
| 1 | | | Primag 2 | Indoor Water Use Reduction, 20% | | 5.9 | 6 | | 1- 1- | | The state of the state of | on & Design Process 6 Points P | 21 |
| 1// | 3888 | | ff Prereq 1 | Building-Level Water Metering | | 5% | 1 | | | 12 | [Credit 1.1 | Exemplary Performance or Innovation: TBD | |
| | | 1 | d Creati | Outdoor Water Use Reduction, 50% - 100% | Reduced 50% | 2 | 1 | | | | Credit 1.2 | Innovation: Low Mercury Lighting | |
| | | 2 | d Great 2 | Indoor Water Use Reduction, 25% - 50% | Reduced 40% | 6 | 1 | | | | Credit 1.3 | Innovation: Green Building Education | |
| | | 2 | Esber3 | Cooling Tower Water Use | | 2 | 1 | | | | ff Credit 1.4 | Innovation: Green O+M Policies | |
| ı | | | Credit 4 | Water Metering | | 1 | 1 | | | | Credit 1.5 | Pilot Credit: Social Equity | |
| | | | | | | | 1 | | | | C Credit 2 | LEED™ Accredited Professional | |
| 6 | 1 | 11 | Energy 8 | & Atmosphere | 33 Points | Possible | | | | | | | |
| | 4 | | C Prunsq 1 | Fundamental Commissioning and Verification | | *3 | 2 | 1 | | 3 | Regiona | l Credits 4 Points P | b |
| | | | d Proneg 2 | Minimum Energy Performance | | 60 | | 940 | 022 | | 4- | zio code | |
| | | | [Preneg l | Building-Level Energy Metering | | (A) | | | | 1 | ff Credit 1.1 | Regional Credit: Access to Quality Transit, 5 points | |
| | 1200 | | f Permit 4 | Fundamental Refrigerant Management | | | | | | 1 | Credit 1.2 | Regional Credit: Rainwater Management, 98th Percentile | |
| 1 | | 2 | € Cred#1 | Enhanced Commissioning | Enhanced Cx | 6 | | | | 1 | (Credit 1.3 | Regional Credit: Outdoor Water Use Reduction, 100% | |
| 4 | | 4 | d Crests 2 | Optimize Energy Performance New Const. | Reduced 24% | 18 | 1 | | | | 1 Credit 1.4 | Regional Credit: Indoor Water Use Reduction, 40% | |
| 1 | | | (Credit) | Advanced Energy Metering | | 1 | 1 | | | | ₫ Credit 1.5 | Regional Credit: Optimize Energy Performance, 24% | |
| | | 2 | ₫ Credit 4 | Demand Response | D.R.P. Available | 2 | | 1 | | | ff Credit 1 ft. | Regional Credit: BPDO Sourcing of Raw Materials | |
| | | 3 | Credit 5 | Renewable Energy Production | 1%, 5% <mark>,</mark> 10% | 3 | | | | | | | |
| | 1 | | Credit 6 | Enhanced Refrigerant Management | | 1 | | | | | | | |
| | | | | | | | | | | | | | |

Site Considerations



Bicycle Facilities

- Long-term bike rack spaces required for 5% of FTE employees
- Short-term bike rack spaces required for 5% of visitors

· Reduced Parking and Green Vehicles

- Provide Clean Air Vehicle spaces for 10% of total parking (to meet both LEED and CalGreen requirements)
- LEED: EV chargers for 2% of total parking
- CalGreen: Future EV supply equipment for 3% of spaces

BRIGHTWORKS SUSTAINABILITY

WATER EFFICIENCY

Indoor Water Use Reduction



- Required 20% Reduction; Targeting 35%-40%
- Eligible fixtures must be WaterSense labeled
 - Toilets, urinals, showerheads, private lavatory faucets
- Target low-flow fixtures:
- Water Closets (1.1 gpf or dual-flush)
- Urinals (0.125 gpf)
- Lavatory Faucets (0.35 gpm)
- Kitchen break sinks (1.0-1.5 gpm)

BRIGHTWORKS SUSTAINABILITY

ENERGY EFFICIENC

Energy Considerations



Energy Performance

- Required: 2% improvement over ASHRAE 90.1-2010
- Targeting: 20-24% energy cost savings, potential 1-10% offset through renewables



- What are HVAC system refrigerant impacts?
- Food service equipment considerations



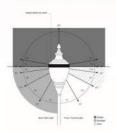
- Submeter any individual end uses representing 10% or more of the total annual consumption
- Interior lighting, Exterior lighting, heating, cooling, plug loads, etc.

SUSTAINABLE SITES

Light Pollution Reduction



- No photometric analysis required
- Simplified Backlight, Uplight, and Glare (BUG) ratings compliance option aligns with CALGreen Mandatory Measure 5.106.8
- Prescriptive approach using BUG rating, mounting height, and distance of exterior light fixture to lighting boundary





INDOOR ENVIRONMENTAL QUALITY

Thermal and Lighting Controls



- Thermal Comfort and Controllability
- Meet requirements of ASHRAE 55-2010 for thermal comfort
- Provide individual thermal comfort controls for at least 50% of individual occupant spaces. Provide group thermal comfort controls for all shared multi-occupant spaces
- Controls allow users to adjust one of the following: air temperature, radiant temperature, air speed, and humidity.
- Lighting Control
 - For 90% of individual occupant spaces provide adjustable, 3-level lighting (on, off, 30%-70% midlevel)
 - For ALL shared multi-occupant spaces provide multi-zone control system with adjustable, 3-level lighting

INDOOR ENVIRONMENTAL QUALITY

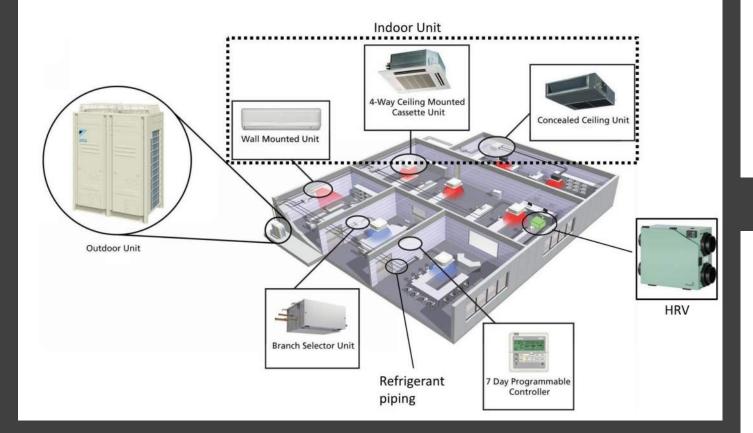
Construction Practices



- Construction waste management
- Divert 50% or 75% of C&D waste from landfill
- On-site sorting for 4 separate waste streams
- Alternate option: generate maximum of 2.5 lb waste per building sf
- Construction IAQ management
- IAQ management plan + SMACNA photo documentation
- Building flush-out or air quality testing
- Low-emitting interiors and emissions standards
 - Adhesives, paints, sealants, coatings (do not exceed VOC content)
 - Flooring systems and composite wood products
 - Ceilings, wall systems, thermal and acoustical insulation

BRIGHTWORKS SUSTAINABILITY

VRF Air Cooled Systems + HRV/ERV



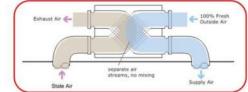
Mechanical System Options Matrix

| | ENERGY / CARBON | FIRST | ONGOING COST | MAINTENANCE | ALL ELECTRIC POTENTIAL? | COMFORT | |
|-----------------------------------------------|--------------------|-------|-----------------|-------------|-------------------------|---------|--|
| OPTION 1: VRF + DOAS | * | \$ | \$ | ** | YES | 6.6 | |
| OPTION 2: Typical System: Package Units | *** | \$ | \$\$ | ** | NO | b | |

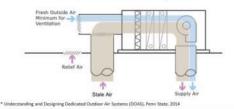
DEDICATED OUTSIDE AIR SYSTEM (DOAS)

More air ≠ Better Indoor Air Quality

Ventilation separate from heating & cooling: "Decoupled HVAC"



Traditional air-based system



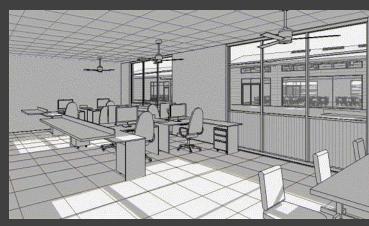
Inherent Problems with VAV Systems*:

- · Poor air distribution
- · Poor humidity control
- · Poor acoustical properties
- Poor use of plenum and mechanical shaft space
- Serious control problems, particularly with tracking return fan systems
- · Poor energy transport medium: air
- Poor and unpredictable ventilation performance

MECHANICAL SYSTEM/OPTIMIZE ENERGY

INTEGRAL Revolutionary Engineering





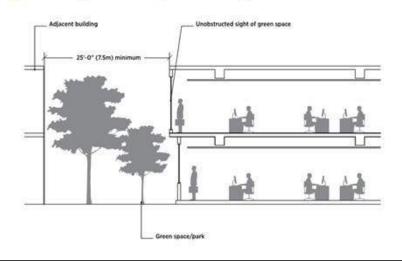


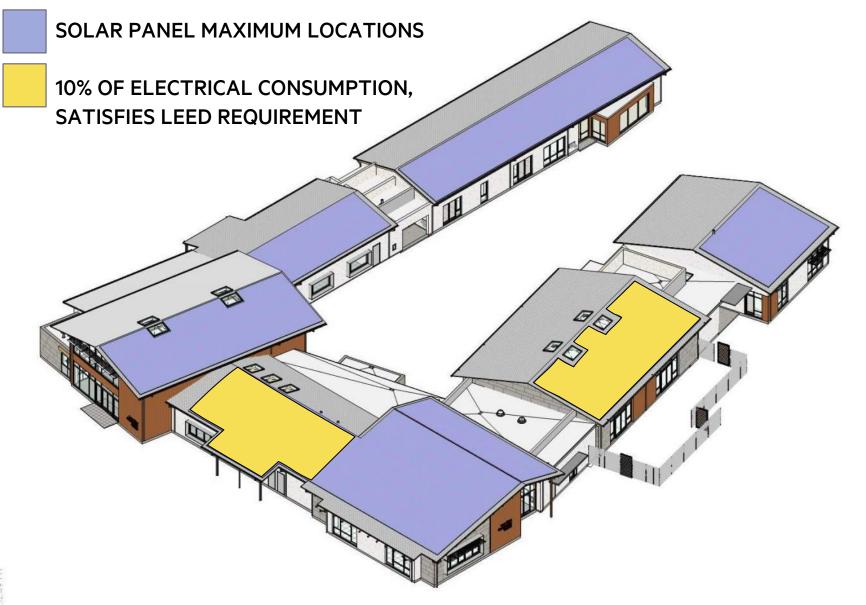
INDOOR ENVIRONMENTAL QUALITY

Daylight and Views



- Daylight for 55%, 75%, 90% of regularly occ. spaces
 - Option 1: Simulation spatial daylight autonomy
 - Option 2: Simulation illuminance calculations
 - Option 3: Measurement
 - Requires blinds (manual or auto) in all occupied spaces
- Quality views for 75% of regularly occupied spaces
 - View of outdoors (flora/fauna)
 - Window transparency
 - Proximity to windows
 - Multiple lines of site
 - Distance of outside objects





MAXIMUM ROOF AREA FOR FOR PV PANELS -APPROX 11,500 SF

CAN PROVIDE 60-90%
OF THE ESTIMATED
ELECTRICAL LOADS

ALL ELECTRIC BUILDING

COST:

10% = \$130K

MAX = \$1.2M

COUNCIL ACTION:

- Adopt the Mitigated Negative Declaration
- Approve Design Review application 18-D-05 for the new Los Altos Community Center

